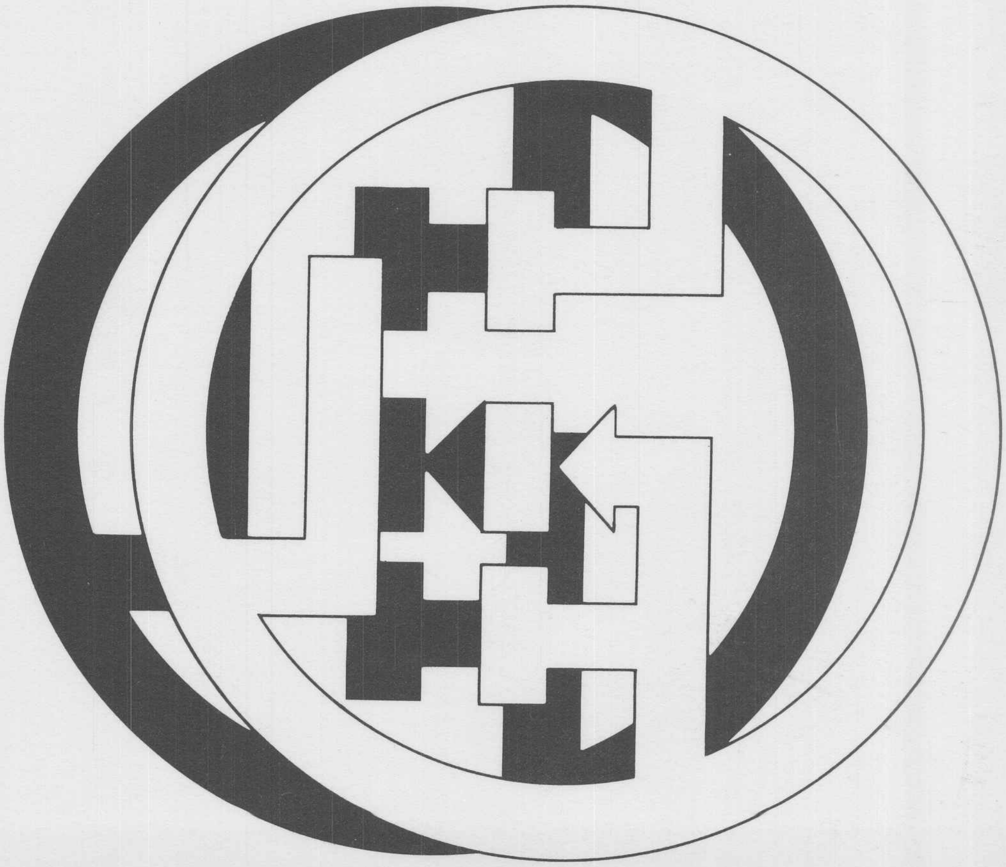
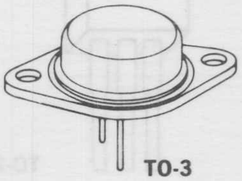
PMX-100

Unitrode POWER MOSFET

Product Selection and Cross Reference Guide



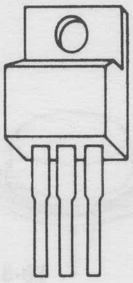


TO-3

V_{DS} Drain Source Voltage (Volts)	$R_{DS(on)}$ On-State Resistance (Ohms)	Part Numbers	I_D Continuous Drain Current (Amps) 100°C Case	I_D Continuous Drain Current (Amps) 25°C Case	I_{DM} Pulsed Drain Current (Amps)	$P_{D\ MAX}$ Power Dissipation (Watts)
500	0.4	2N6770	7.75	12.0	48	150
500	0.4	UFN450	8.0	13.0	52	150
500	0.5	UFN452	7.0	12.0	48	150
500	0.85	UFN440	5.0	8.0	32	125
500	1.1	UFN442	4.0	7.0	28	125
500	1.5	2N6762	3.0	4.5	18	75
500	1.5	UFN430	3.0	4.5	18	75
500	2.0	UFN432	3.5	4.0	16	75
500	3.0	UFN420	1.5	2.5	10	40
500	4.0	UFN422	1.0	2.0	8	40
450	0.4	UFN451	8.0	13.0	52	150
450	0.5	2N6769	7.0	11.0	44	150
450	0.5	UFN453	7.0	12.0	48	150
450	0.85	UFN441	5.0	8.0	32	125
450	1.1	UFN443	4.0	7.0	28	125
450	1.5	UFN431	3.0	4.5	18	75
450	2.0	2N6761	2.5	4.0	16	75
450	2.0	UFN433	2.5	4.0	16	75
450	3.0	UFN421	1.5	2.5	10	40
450	4.0	UFN423	1.0	2.0	8	40
400	0.3	2N6768	9.0	14.0	56	150
400	0.3	UFN350	9.0	15.0	60	150
400	0.4	UFN352	8.0	13.0	52	150
400	0.55	UFN340	6.0	10.0	40	125
400	0.8	UFN342	5.0	8.0	32	125
400	1.0	2N6760	3.5	5.5	22	75
400	1.0	UFN330	3.5	5.5	22	75
400	1.5	UFN332	3.0	4.5	18	75
400	1.8	UFN320	2.0	3.0	12	40
400	2.5	UFN322	1.5	2.5	10	40
350	0.3	UFN351	9.0	15.0	60	150
350	0.4	2N6767	7.75	12.0	48	150
350	0.4	UFN353	8.0	13.0	52	150
350	0.55	UFN341	6.0	10.0	40	125
350	0.8	UFN343	5.0	8.0	32	125
350	1.0	UFN331	3.5	5.5	22	75
350	1.5	2N6759	3.0	4.5	18	75
350	1.5	UFN333	3.5	4.5	18	75
350	1.8	UFN321	2.0	3.0	12	40
350	2.5	UFN323	1.5	2.5	10	40

V_{DS} Drain Source Voltage (Volts)	$R_{DS(on)}$ On-State Resistance (Ohms)	Part Numbers	I_D Continuous Drain Current (Amps) 100°C Case	I_D Continuous Drain Current (Amps) 25°C Case	I_{DM} Pulsed Drain Current (Amps)	$P_{D\ MAX}$ Power Dissipation (Watts)
200	0.085	2N6766	19.0	30.0	120	150
200	0.085	UFN250	19.0	30.0	120	150
200	0.12	UFN252	16.0	25.0	100	150
200	0.18	UFN240	11.0	18.0	72	125
200	0.22	UFN242	10.0	16.0	64	125
200	0.4	2N6758	6.0	9.0	36	75
200	0.4	UFN230	6.0	9.0	36	75
200	0.6	UFN232	5.0	8.0	32	75
200	0.8	UFN220	3.0	5.0	20	40
200	1.2	UFN222	2.5	4.0	16	40
150	0.085	UFN251	19.0	30.0	120	150
150	0.12	2N6765	16.0	25.0	100	150
150	0.12	UFN253	16.0	25.0	100	150
150	0.18	UFN241	11.0	18.0	72	125
150	0.22	UFN243	10.0	16.0	64	125
150	0.4	UFN231	6.0	9.0	36	75
150	0.6	2N6757	5.0	8.0	32	75
150	0.6	UFN233	5.0	8.0	32	75
150	0.8	UFN221	3.0	5.0	20	40
150	1.2	UFN223	2.5	4.0	16	40
100	0.055	2N6764	24.0	38.0	152	150
100	0.055	UFN150	25.0	40.0	160	150
100	0.08	UFN152	20.0	33.0	132	150
100	0.085	UFN140	17.0	27.0	108	125
100	0.11	UFN142	15.0	24.0	96	125
100	0.18	2N6756	9.0	14.0	56	75
100	0.18	UFN130	9.0	14.0	56	75
100	0.25	UFN132	8.0	12.0	48	75
100	0.3	UFN120	5.0	8.0	32	40
100	0.4	UFN122	4.0	7.0	28	40
60	0.055	UFN151	25.0	40.0	160	150
60	0.08	2N6763	20.0	31.0	124	150
60	0.08	UFN153	20.0	33.0	132	150
60	0.085	UFN141	17.0	27.0	108	125
60	0.11	UFN143	15.0	24.0	96	125
60	0.18	UFN131	9.0	14.0	56	75
60	0.25	2N6755	8.0	12.0	48	75
60	0.25	UFN133	8.0	12.0	48	75
60	0.3	UFN121	5.0	8.0	32	40
60	0.4	UFN123	4.0	7.0	28	40

N-CHANNEL POWER MOSFETS

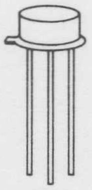


TO-220AB

V_{DS} Drain Source Voltage (Volts)	$R_{DS(on)}$ On-State Resistance (Ohms)	Part Numbers	I_D Continuous Drain Current (Amps)		I_{DM} Pulsed Drain Current (Amps)	$P_{D\,MAX}$ Power Dissipation (Watts)
			100°C Case	25°C Case		
500	0.85	UFN840	5.0	8.0	32	125
500	1.1	UFN842	4.0	7.0	28	125
500	1.5	UFN830	3.0	4.5	18	75
500	2.0	UFN832	2.5	4.0	16	75
500	3.0	UFN820	1.5	2.5	10	40
500	4.0	UFN822	1.0	2.0	8	40
450	0.85	UFN841	5.0	8.0	32	125
450	1.1	UFN843	4.0	7.0	28	125
450	1.5	UFN831	3.0	4.5	18	75
450	2.0	UFN833	2.5	4.0	16	75
450	3.0	UFN821	1.5	2.5	10	40
450	4.0	UFN823	1.0	2.0	8	40
400	0.55	UFN740	6.0	10.0	40	125
400	0.80	UFN742	5.0	8.0	32	125
400	1.0	UFN730	3.5	5.5	22	75
400	1.5	UFN732	3.0	4.5	18	75
400	1.8	UFN720	2.0	3.0	12	40
400	2.5	UFN722	1.5	2.5	10	40
400	3.6	UFN710	1.0	1.5	6	20
400	5.0	UFN712	0.8	1.3	5	20
350	0.55	UFN741	6.0	10.0	40	125
350	0.8	UFN743	5.0	8.0	32	125
350	1.0	UFN731	3.5	5.5	22	75
350	1.5	UFN733	3.0	4.5	18	75
350	1.8	UFN721	2.0	3.0	12	40
350	2.5	UFN723	1.5	2.5	10	40
350	3.6	UFN711	1.0	1.5	6	20
350	5.0	UFN713	0.8	1.3	5	20
200	0.18	UFN640	11.0	18.0	72	125
200	0.22	UFN642	10.0	16.0	64	125

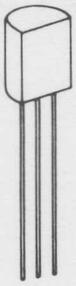
V_{DS} Drain Source Voltage (Volts)	$R_{DS(on)}$ On-State Resistance (Ohms)	Part Numbers	I_D Continuous Drain Current (Amps)		I_{DM} Pulsed Drain Current (Amps)	$P_{D\,MAX}$ Power Dissipation (Watts)
			100°C Case	25°C Case		
200	0.4	UFN630	6.0	9.0	36	75
200	0.6	UFN632	5.0	8.0	32	75
200	0.8	UFN620	3.0	5.0	20	40
200	1.2	UFN622	2.5	4.0	16	40
200	1.5	UFN610	1.5	2.5	10	20
200	2.4	UFN612	1.25	2.0	8	20
150	0.18	UFN641	11.0	18.0	72	125
150	0.22	UFN643	10.0	16.0	64	125
150	0.4	UFN631	6.0	9.0	36	75
150	0.6	UFN633	5.0	8.0	32	75
150	0.8	UFN621	3.0	5.0	20	40
150	1.2	UFN623	2.5	4.0	16	40
150	1.5	UFN611	1.5	2.5	10	20
150	2.4	UFN613	1.25	2.0	8	20
100	0.085	UFN540	17.0	27.0	108	125
100	0.11	UFN542	15.0	24.0	96	125
100	0.18	UFN530	9.0	14.0	56	75
100	0.25	UFN532	8.0	12.0	48	75
100	0.3	UFN520	5.0	8.0	32	40
100	0.4	UFN522	4.0	7.0	28	40
100	0.6	UFN510	2.5	4.0	16	20
100	0.8	UFN512	2.0	3.5	14	20
60	0.085	UFN541	17.0	27.0	108	125
60	0.11	UFN543	15.0	24.0	96	125
60	0.18	UFN531	9.0	14.0	56	75
60	0.25	UFN533	8.0	12.0	48	75
60	0.3	UFN521	5.0	8.0	32	40
60	0.4	UFN523	4.0	7.0	28	40
60	0.6	UFN511	2.5	4.0	16	20
60	0.8	UFN513	2.0	3.5	14	20

PRODUCT SELECTION GUIDE



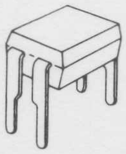
TO-39

V_{DS} Drain Source Voltage (Volts)	$R_{DS(on)}$ On-State Resistance (Ohms)	Part Numbers	I_D Continuous Drain Current (Amps)		I_{DM} Pulsed Drain Current (Amps)	$P_{D\ MAX}$ Power Dissipation (Watts)
			100°C Case	25°C Case		
500	1.5	UFNF430	1.75	2.75	11	25
500	2.0	UFNF432	1.5	2.25	9	25
500	3.0	UFNF420	1.0	1.6	6.5	20
500	4.0	UFNF422	0.9	1.4	5.5	20
450	1.5	UFNF431	1.75	2.75	11	25
450	2.0	UFNF433	1.5	2.25	9	25
450	3.0	UFNF421	1.0	1.6	6.5	20
450	4.0	UFNF423	0.9	1.4	5.5	20
400	1.0	UFNF330	2.0	3.5	14	25
400	1.5	UFNF332	1.6	3.0	12	25
400	1.8	UFNF320	1.45	2.5	10	20
400	2.5	UFNF322	1.2	2.0	8	20
400	3.6	UFNF310	.85	1.35	5.5	15
400	5.0	UFNF312	0.75	1.15	4.5	15
350	1.0	UFNF331	2.0	3.5	14	25
350	1.5	UFNF333	1.6	3.0	12	25
350	1.8	UFNF321	1.45	2.5	10	20
350	2.5	UFNF323	1.2	2.0	8	20
350	3.5	UFNF311	0.85	1.35	5.5	15
350	5.0	UFNF313	0.75	1.15	4.5	15
200	0.4	UFNF230	3.5	5.5	22	25
200	0.6	UFNF232	2.8	4.5	18	25
200	0.8	UFNF220	2.1	3.5	14	20
200	1.2	UFNF222	1.75	3.0	12	20
200	1.5	UFNF210	1.4	2.2	9	15
200	2.4	UFNF212	1.1	1.8	7.5	15
150	0.4	UFNF231	3.5	5.5	22	25
150	0.6	UFNF233	2.8	4.5	18	25
150	0.8	UFNF221	2.1	3.5	14	20
150	1.2	UFNF223	1.75	3.0	12	20
150	1.5	UFNF211	1.4	2.2	9	15
150	2.4	UFNF213	1.1	1.8	7.5	15
100	0.18	UFNF130	5.0	8.0	32	25
100	0.25	UFNF132	4.5	7.0	28	25
100	0.3	UFNF120	3.5	6.0	24	20
100	0.4	UFNF122	3.0	5.0	20	20
100	0.6	UFNF110	2.25	3.5	14	15
100	0.8	UFNF112	2.0	3.0	12	15
60	0.18	UFNF131	5.0	8.0	32	25
60	0.25	UFNF133	4.5	7.0	28	25
60	0.3	UFNF121	3.5	6.0	24	20
60	0.4	UFNF123	3.0	5.0	20	20
60	0.6	UFNF111	2.25	3.5	14	15
60	0.8	UFNF113	2.0	3.0	12	15



TO-92

V_{DS} Drain Source Voltage (Volts)	$R_{DS(on)}$ On-State Resistance (Ohms)	Part Numbers	I_D Continuous Drain Current (Amps) 25°C Case	I_{DM} Pulsed Drain Current (Amps)	$P_{D\ MAX}$ Power Dissipation (Watts)
100	1.5	UFNA12	1.0	2.0	2.4
60	1.5	UFNA11	1.0	2.0	2.4



DIL-4

V_{DS} Drain Source Voltage (Volts)	$R_{DS(on)}$ On-State Resistance (Ohms)	Part Numbers	I_D Continuous Drain Current (Amps) 25°C Case	I_{DM} Pulsed Drain Current (Amps)	$P_{D\ MAX}$ Power Dissipation (Watts)
200	1.5	UFND210	0.6	2.5	1.0
150	2.4	UFND213	0.45	1.8	1.0
100	0.3	UFND120	1.3	5.2	1.0
100	0.6	UFND110	1.0	4.0	1.0
100	0.8	UFND112	0.8	3.0	1.0
100	2.4	UFND1Z0	0.5	2.0	1.0
100	3.2	UFND1Z2	0.4	1.5	1.0
60	0.4	UFND123	1.1	4.4	1.0
60	0.6	UFND111	1.0	4.0	1.0
60	0.8	UFND113	0.8	3.0	1.0
60	2.4	UFND1Z1	0.5	2.0	1.0
60	3.2	UFND1Z3	0.4	1.5	1.0

Power MOSFET Cross Reference

Part Number	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)	Suggested Replacement	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)
2N6755	12	60	0.25	2N6755*			
2N6756	14	100	0.18	2N6756*			
2N6757	8.0	150	0.6	2N6757*			
2N6758	9.0	200	0.4	2N6758*			
2N6759	4.5	350	1.5	2N6759*			
2N6760	5.5	400	1.0	2N6760*			
2N6761	4.0	450	2.0	2N6761*			
2N6762	4.5	500	1.5	2N6762*			
2N6763	31	60	0.08	2N6763*			
2N6764	38	100	0.055	2N6764*			
2N6765	25	150	0.12	2N6765*			
2N6766	30	200	0.085	2N6766*			
2N6767	12	350	0.4	2N6767*			
2N6768	14	400	0.3	2N6768*			
2N6769	11	450	0.5	2N6769*			
2N6770	12	500	0.4	2N6770*			
2N6660	1.2	60	3.0	UFNF113	3.0	60	0.8
2N6661	1.2	90	3.0	UFNF112	3.0	100	0.8
2SK133	7.0	120	1.7	UFN233	8.0	150	0.6
2SK134	7.0	140	1.7	UFN233	8.0	150	0.6
2SK135	7.0	160	1.7	UFN232	8.0	200	0.6
2SK175	8.0	180	1.7	UFN232	8.0	200	0.6
2SK176	8.0	200	1.7	UFN232	8.0	200	0.6
2SK213	0.5	140	4.0	UFN613	2.0	150	2.4
2SK214	0.5	160	4.0	UFN612	2.0	200	2.4
2SK215	0.5	180	4.0	UFN612	2.0	200	2.4
2SK216	0.5	200	15.0	UFN612	2.0	200	2.4
2SK220	8.0	160	1.5	UFN232	8.0	200	0.6
2SK221	8.0	200	1.1	UFN232	8.0	200	0.6
2SK258	8.0	250	1.1	UFN343	8.0	350	0.8
2SK259	5.0	350	3.0	UFN331	5.5	350	1.0
2SK260	5.0	400	3.0	UFN330	5.5	400	1.0
2SK294	5.0	80	0.56	UFN522	7.0	100	0.4
2SK295	5.0	100	0.56	UFN522	7.0	100	0.4
2SK296	1.0	300	4.0	UFN713	1.3	350	5.0
2SK298	8.0	400	1.75	UFN342	8.0	400	0.8
2SK299	8.0	450	1.75	UFN441	8.0	450	0.85
2SK308	10	120	0.3	UFN243	16.0	150	0.22
2SK310	3.0	400	3.0	UFN720	3.0	400	1.8
2SK311	3.0	450	3.0	UFN833	4.0	450	2.0
2SK312	12	400	0.9	UFN352	13.0	400	0.4
2SK313	12	450	0.9	UFN453	12.0	450	0.5
2SK319	5.0	400	1.83	UFN730	5.5	400	1.0
2SK320	5.0	450	1.83	UFN843	7.0	450	1.1
BUZ10	12	50	0.1	UFN533	12	60	0.25
BUZ10A	12	50	0.15	UFN533	12	60	0.25
BUZ11Δ	28	50	0.04	UFN541	27	60	0.085
BUZ14	30	50	0.04	UFN153	33	60	0.08
BUZ15	45	50	0.03	UFN151	40	60	0.055
BUZ20	8.0	100	0.2	UFN520	8.0	100	0.3
BUZ21	18	100	0.1	UFN542	24	100	0.11
BUZ23	8.0	100	0.2	UFN520	8.0	100	0.3
BUZ24	32	100	0.06	UFN540	27	100	0.085
BUZ25Δ	20	100	0.1	UFN542	24	100	0.11
BUZ30	5.5	200	0.75	UFN632	8.0	200	0.6
BUZ31	12.5	200	0.2	UFN642	16	200	0.22
BUZ32	8.8	200	0.4	UFN630	9.0	200	0.4
BUZ33	6.4	200	0.75	UFN232	8.0	200	0.6
BUZ34	14	200	0.2	UFN242	16	200	0.22
BUZ35	9.9	200	0.4	UFN242	16	200	0.22
BUZ36	22	200	0.12	UFN252	25	200	0.12
BUZ40	2.0	500	4.5	UFN822	2.0	500	4.0
BUZ41	5.0	500	1.1	UFN842	7.0	500	1.1
BUZ41A	4.3	500	1.5	UFN830	4.5	500	1.5
BUZ42	3.7	500	2.0	UFN832	4.0	500	2.0
BUZ43	2.5	500	4.5	UFN420	2.5	500	3.0
BUZ44	5.6	500	1.1	UFN442	7.0	500	1.1
BUZ44A	4.8	500	1.5	UFN442	7.0	500	1.1
BUZ45	8.6	500	0.6	UFN452	12.0	500	0.5
BUZ45A	7.4	500	0.8	UFN440	8.0	500	0.85
BUZ46	4.2	500	2.0	UFN430	4.5	500	1.5
BUZ60	5.5	400	1.0	UFN330	5.5	400	1.0
BUZ63	5.9	400	1.0	UFN342	8.0	400	0.8
BUZ64Δ	10.5	400	0.4	UFN352	13	400	0.4
BUZ71A	12	50	0.12	UFN533	12	60	0.25

Part Number	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)	Suggested Replacement	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)
IVN5000AND†	0.7	40	2.5	UFNA11	1.0	60	1.5
IVN5000ANE†	0.7	60	2.5	UFNA11	1.0	60	1.5
IVN5000ANF†	0.7	80	2.5	UFNA12	1.0	100	1.5
IVN5000ANH†	0.7	100	2.5	UFNA12	1.0	100	1.5
IVN5000TND	1.2	40	2.5	UFNF113	3.0	60	0.8
IVN5000TNE	1.2	60	2.5	UFNF113	3.0	60	0.8
IVN5000TNF	1.2	80	2.5	UFNF112	3.0	100	0.8
IVN5000TNH	1.2	100	2.5	UFNF112	3.0	100	0.8
IVN5200KND	5.0	40	2.5	UFN123	7.0	60	0.4
IVN5200KNE	5.0	60	2.5	UFN123	7.0	60	0.4
IVN5200KNF	5.0	80	2.5	UFN122	7.0	100	0.4
IVN5200KNH	5.0	100	2.5	UFN122	7.0	100	0.4
IVN5200TND	4.0	40	2.5	UFNF123	5.0	60	0.4
IVN5200TNE	4.0	60	2.5	UFNF123	5.0	60	0.4
IVN5200TNF	4.0	80	2.5	UFNF122	5.0	100	0.4
IVN5200TNH	4.0	100	2.5	UFNF122	5.0	100	0.4
IVN5201CND	5.0	40	0.5	UFN523	7.0	60	0.4
IVN5201CNE	5.0	60	0.5	UFN523	7.0	60	0.4
IVN5201CNF	5.0	80	0.5	UFN522	7.0	100	0.4
IVN5201CNH	5.0	100	0.5	UFN522	7.0	100	0.4
IVN6000CNS	2.0	400	3.5	UFN722	2.5	400	2.5
IVN6000CNT	2.0	450	3.5	UFN823	2.0	450	4.0
IVN6000CNU	1.75	500	4.0	UFN822	2.0	500	4.0
IVN6000KNR	2.5	350	3.0	UFN323	2.5	350	2.5
IVN6000KNS	2.5	400	3.0	UFN322	2.5	400	2.5
IVN6000KNT	2.5	450	3.0	UFN421	2.5	450	3.0
IVN6000KNU	2.0	500	4.0	UFN420	2.5	500	3.0
IVN6000TNS	1.0	400	3.5	UFNF313	1.15	400	5.0
IVN6000TNT	1.0	450	3.5	UFNF423	1.4	450	4.0
IVN6000TNU	0.90	500	4.0	UFNF422	1.4	500	4.0
IVN6100TNS	0.3	400	15	UFNF313	1.15	400	5.0
IVN6100TNT	0.3	450	15	UFNF423	1.4	450	4.0
IVN6100TNU	0.3	500	15	UFNF422	1.4	500	4.0
IVN6200CNE	10	60	0.2	UFN533	12	60	0.25
IVN6200CNF	10	80	0.2	UFN532	12	100	0.25
IVN6200CNH	10	100	0.2	UFN532	12	100	0.25
IVN6200CNM	10	200	0.5	UFN642	16	200	0.22
IVN6200CNP	10	250	0.5	UFN741	10	350	0.55
IVN6200CNS	5.0	400	1.5	UFN742	8.0	400	0.80
IVN6200CNT	5.0	450	1.5	UFN843	7.0	450	1.1
IVN6200CNU	5.0	500	1.5	UFN842	7.0	500	1.1
IVN6200KNE	10	60	0.2	UFN133	12	60	0.25
IVN6200KNF	10	80	0.2	UFN132	12	100	0.25
IVN6200KNH	10	100	0.2	UFN132	12	100	0.25
IVN6200KNM	10	200	0.5	UFN242	16	200	0.22
IVN6200KNP	10	250	0.5	UFN341	10	350	0.55
IVN6200KNS	5.0	400	1.5	UFN330	5.5	400	1.0
IVN6200KNT	5.0	450	1.5	UFN443	7.0	450	1.1
IVN6200KNU	5.0	500	1.5	UFN442	7.0	500	1.1
IVN6300ANE†	0.25	60	7.5	UFNA11	1.0	60	1.5
IVN6300ANF†	0.25	80	7.5	UFNA12	1.0	100	1.5
IVN6300ANH†	0.25	100	7.5	UFNA12	1.0	100	1.5
IRF120	8.0	100	0.3	UFN120*			
IRF121	8.0	60	0.3	UFN121*			
IRF122	7.0	100	0.4	UFN122*			
IRF123	7.0	60	0.4	UFN123*			
IRF130	14	100	0.18	UFN130*			
IRF131	14	60	0.18	UFN131*			
IRF132	12	100	0.25	UFN132*			
IRF133	12	60	0.25	UFN133*			
IRF140	27	100	0.085	UFN140*			
IRF141	27	60	0.085	UFN141*			
IRF142	24	100	0.11	UFN142*			
IRF143	24	60	0.11	UFN143*			
IRF150	25	100	0.055	UFN150*			
IRF151	25	60	0.055	UFN151*			
IRF152	20	100	0.08	UFN152*			
IRF153	20	60	0.08	UFN153*			
IRF220	5.0	200	0.8	UFN220*			
IRF221	5.0	150	0.8	UFN221*			
IRF222	4.0	200	1.2	UFN222*			
IRF223	4.0	150	1.2	UFN223*			

* Direct Equivalent
Δ Proposed Products
† Competitor's package is a TO-237; Unitrode's package is a TO-92
** Competitor's package is a TO-202; Unitrode's package is a TO-220

Part Number	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)	Suggested Replacement	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)
IRF230	9.0	200	0.4	UFN230*			
IRF231	9.0	150	0.4	UFN231*			
IRF232	8.0	200	0.6	UFN232*			
IRF233	8.0	150	0.6	UFN233*			
IRF240	18	200	0.18	UFN240*			
IRF241	18	150	0.18	UFN241*			
IRF242	16	200	0.22	UFN242*			
IRF243	16	150	0.22	UFN243*			
IRF250	30	200	0.085	UFN250*			
IRF251	30	150	0.085	UFN251*			
IRF252	25	200	0.120	UFN252*			
IRF253	25	150	0.120	UFN253*			
IRF320	3.0	400	1.8	UFN320*			
IRF321	3.0	350	1.8	UFN321*			
IRF322	2.5	400	2.5	UFN322*			
IRF323	2.5	350	2.5	UFN323*			
IRF330	5.5	400	1.0	UFN330*			
IRF331	5.5	350	1.0	UFN331*			
IRF332	4.5	400	1.5	UFN332*			
IRF333	4.5	350	1.5	UFN333*			
IRF340	10	400	0.55	UFN340*			
IRF341	10	350	0.55	UFN341*			
IRF342	8.0	400	0.8	UFN342*			
IRF343	8.0	350	0.8	UFN343*			
IRF350	15	400	0.3	UFN350*			
IRF351	15	350	0.3	UFN351*			
IRF352	13	400	0.4	UFN352*			
IRF353	13	350	0.4	UFN353*			
IRF420	2.5	500	3.0	UFN420*			
IRF421	2.5	450	3.0	UFN421*			
IRF422	2.0	500	4.0	UFN422*			
IRF423	2.0	450	4.0	UFN423*			
IRF430	4.5	500	1.5	UFN430*			
IRF431	4.5	450	1.5	UFN431*			
IRF432	4.0	500	2.0	UFN432*			
IRF433	4.0	450	2.0	UFN433*			
IRF440	8.0	500	0.85	UFN440*			
IRF441	8.0	450	0.85	UFN441*			
IRF442	7.0	500	1.1	UFN442*			
IRF443	7.0	450	1.1	UFN443*			
IRF450	13.0	500	0.4	UFN450*			
IRF451	13.0	450	0.4	UFN451*			
IRF452	12.0	500	0.5	UFN452*			
IRF453	12.0	450	0.5	UFN453*			
IRF510	4.0	100	0.6	UFN510*			
IRF511	4.0	60	0.6	UFN511*			
IRF512	3.5	100	0.8	UFN512*			
IRF513	3.5	60	0.8	UFN513*			
IRF520	8.0	100	0.3	UFN520*			
IRF521	8.0	60	0.3	UFN521*			
IRF522	7.0	100	0.4	UFN522*			
IRF523	7.0	60	0.4	UFN523*			
IRF530	14	100	0.18	UFN530*			
IRF531	14	60	0.18	UFN531*			
IRF532	12	100	0.25	UFN532*			
IRF533	12	60	0.25	UFN533*			
IRF540	27	100	0.085	UFN540*			
IRF541	27	60	0.085	UFN541*			
IRF542	24	100	0.11	UFN542*			
IRF543	24	60	0.11	UFN543*			
IRF610	2.5	200	1.5	UFN610*			
IRF611	2.5	150	1.5	UFN611*			
IRF612	2.0	200	2.4	UFN612*			
IRF613	2.0	150	2.4	UFN613*			
IRF620	5.0	200	0.8	UFN620*			
IRF621	5.0	150	0.8	UFN621*			
IRF622	4.0	200	1.2	UFN622*			
IRF623	4.0	150	1.2	UFN623*			
IRF630	9.0	200	0.4	UFN630*			
IRF631	9.0	150	0.4	UFN631*			
IRF632	8.0	200	0.6	UFN632*			
IRF633	8.0	150	0.6	UFN633*			
IRF640	18	200	0.18	UFN640*			
IRF641	18	150	0.18	UFN641*			
IRF642	16	200	0.22	UFN642*			
IRF643	16	150	0.22	UFN643*			

Part Number	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)	Suggested Replacement	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)
IRF710	1.5	400	3.6	UFN710*			
IRF711	1.5	350	3.6	UFN711*			
IRF712	1.3	400	5.0	UFN712*			
IRF713	1.3	350	5.0	UFN713*			
IRF720	3.0	400	1.8	UFN720*			
IRF721	3.0	350	1.8	UFN721*			
IRF722	2.5	400	2.5	UFN722*			
IRF723	2.5	350	2.5	UFN723*			
IRF730	5.5	400	1.0	UFN730*			
IRF731	5.5	350	1.0	UFN731*			
IRF732	4.5	400	1.5	UFN732*			
IRF733	4.5	350	1.5	UFN733*			
IRF740	10	400	0.55	UFN740*			
IRF741	10	350	0.55	UFN741*			
IRF742	8.0	400	0.8	UFN742*			
IRF743	8.0	350	0.8	UFN743*			
IRF820	2.5	500	3.0	UFN820*			
IRF821	2.5	450	3.0	UFN821*			
IRF822	2.0	500	4.0	UFN822*			
IRF823	2.0	450	4.0	UFN823*			
IRF830	4.5	500	1.5	UFN830*			
IRF831	4.5	450	1.5	UFN831*			
IRF832	4.0	500	2.0	UFN832*			
IRF833	4.0	450	2.0	UFN833*			
IRF840	8.0	500	0.85	UFN840*			
IRF841	8.0	450	0.85	UFN841*			
IRF842	7.0	500	1.1	UFN842*			
IRF843	7.0	450	1.1	UFN843*			
IRFD1Z0	2.0	100	2.4	UFND1Z0*			
IRFD1Z1	2.0	60	2.4	UFND1Z1*			
IRFD1Z2	1.5	100	3.2	UFND1Z2*			
IRFD1Z3	1.5	60	3.2	UFND1Z3*			
IRFD110	1.0	100	0.6	UFND110*			
IRFD111	1.0	60	0.6	UFND111*			
IRFD112	0.8	100	0.8	UFND112*			
IRFD113	0.8	60	0.8	UFND113*			
IRFD120	1.3	100	0.3	UFND120*			
IRFD123	1.1	60	0.4	UFND123*			
IRFD210	0.6	200	1.5	UFND210*			
IRFD213	0.45	150	2.4	UFND213*			
IRFF110	3.5	100	0.6	UFNF110*			
IRFF111	3.5	60	0.6	UFNF111*			
IRFF112	3.0	100	0.8	UFNF112*			
IRFF113	3.0	60	0.8	UFNF113*			
IRFF120	6.0	100	0.3	UFNF120*			
IRFF121	6.0	60	0.3	UFNF121*			
IRFF122	5.0	100	0.4	UFNF122*			
IRFF123	5.0	60	0.4	UFNF123*			
IRFF130	8.0	100	0.18	UFNF130*			
IRFF131	8.0	60	0.18	UFNF131*			
IRFF132	7.0	100	0.25	UFNF132*			
IRFF133	7.0	60	0.25	UFNF133*			
IRFF210	2.2	200	1.5	UFNF210*			
IRFF211	2.2	150	1.5	UFNF211*			
IRFF212	1.8	200	2.4	UFNF212*			
IRFF213	1.8	150	2.4	UFNF213*			
IRFF220	3.5	200	0.8	UFNF220*			
IRFF221	3.5	150	0.8	UFNF221*			
IRFF222	3.0	200	1.2	UFNF222*			
IRFF223	3.0	150	1.2	UFNF223*			
IRFF230	5.5	200	0.4	UFNF230*			
IRFF231	5.5	150	0.4	UFNF231*			
IRFF232	4.5	200	0.6	UFNF232*			
IRFF233	4.5	150	0.6	UFNF233*			
IRFF310	1.35	400	3.6	UFNF310*			
IRFF311	1.35	350	3.6	UFNF311*			
IRFF312	1.15	400	5.0	UFNF312*			
IRFF313	1.15	350	5.0	UFNF313*			
IRFF320	2.5	400	1.8	UFNF320*			
IRFF321	2.5	350	1.8	UFNF321*			
IRFF322	2.0	400	2.5	UFNF322*			
IRFF323	2.0	350	2.5	UFNF323*			

* Direct Equivalent
Δ Proposed Products
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** Competitor's package is a TO-202; Unitrode's package is a TO-220

Part Number	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)	Suggested Replacement	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)
IRFF330	3.5	400	1.0	UFNF330*			
IRFF331	3.5	350	1.0	UFNF331*			
IRFF332	3.0	400	1.5	UFNF332*			
IRFF333	3.0	350	1.5	UFNF333*			
IRFF420	1.6	500	3.0	UFNF420*			
IRFF421	1.6	450	3.0	UFNF421*			
IRFF422	1.4	500	4.0	UFNF422*			
IRFF423	1.4	450	4.0	UFNF423*			
IRFF430	2.75	500	1.5	UFNF430*			
IRFF431	2.75	450	1.5	UFNF431*			
IRFF432	2.25	500	2.0	UFNF432*			
IRFF433	2.25	450	2.0	UFNF433*			
MTM2N45	2.0	450	4.6	UFN423	2.0	450	4.0
MTM2N50	2.0	500	4.0	UFN422	2.0	500	4.0
MTM3N35	3.0	350	3.3	UFN321	3.0	350	1.8
MTM3N40	3.0	400	3.3	UFN320	3.0	400	1.8
MTM4N45	4.0	450	2.0	UFN433	4.0	450	2.0
MTM4N50	4.0	500	2.0	UFN432	4.0	500	2.0
MTM5N18	5.0	180	1.0	UFN220	5.0	200	0.8
MTM5N20	5.0	200	1.0	UFN220	5.0	200	0.8
MTM5N35	5.0	350	1.5	UFN331	5.5	350	1.0
MTM5N40	5.0	400	1.5	UFN330	5.5	400	1.0
MTM7N12	7.0	120	0.7	UFN233	8.0	150	0.6
MTM7N15	7.0	150	0.7	UFN233	8.0	150	0.6
MTM7N18	7.0	180	0.65	UFN232	8.0	200	0.6
MTM7N20	7.0	200	0.65	UFN232	8.0	200	0.6
MTM7N45	7.0	450	1.2	UFN443	7.0	450	1.1
MTM7N50	7.0	500	1.2	UFN442	7.0	500	1.1
MTM8N12	8.0	120	0.5	UFN233	8.0	150	0.6
MTM8N15	8.0	150	0.5	UFN233	8.0	150	0.6
MTM8N35	8.0	350	0.8	UFN343	8.0	350	0.8
MTM8N40	8.0	400	0.8	UFN342	8.0	400	0.8
MTM10N08	10	80	0.33	UFN132	12	100	0.25
MTM10N10	10	100	0.33	UFN132	12	100	0.25
MTM10N12	10	120	0.30	UFN243	16	150	0.22
MTM10N15	10	150	0.30	UFN243	16	150	0.22
MTM12N05	12	50	0.2	UFN133	12	60	0.25
MTM12N06	12	60	0.2	UFN133	12	60	0.25
MTM12N08	12	80	0.18	UFN132	12	100	0.25
MTM12N10	12	100	0.18	UFN132	12	100	0.25
MTM12N12	12	120	0.26	UFN243	16	150	0.22
MTM12N15	12	150	0.26	UFN243	16	150	0.22
MTM12N18	12	180	0.35	UFN242	16	200	0.22
MTM12N20	12	200	0.35	UFN242	16	200	0.22
MTM15N05	15	50	0.16	UFN143	24	60	0.11
MTM15N06	15	60	0.16	UFN143	24	60	0.11
MTM15N12	15	120	0.22	UFN243	16	150	0.22
MTM15N15	15	150	0.22	UFN243	16	150	0.22
MTM15N35	15	350	0.40	UFN351	15	350	0.4
MTM15N45	15	450	0.40	UFN451	13	450	0.4
MTM15N50	15	500	0.50	UFN450	13	500	0.4
MTP1N45	1.0	45	8.0	UFN823	2.0	450	4.0
MTP1N50	1.0	50	8.0	UFN822	2.0	500	4.0
MTP2N35	2.0	350	3.3	UFN723	2.5	350	2.5
MTP2N40	2.0	400	3.3	UFN722	2.5	400	2.5
MTP2N45	2.0	450	4.0	UFN823	2.0	450	4.0
MTP2N50	2.0	500	6.0	UFN822	2.0	500	4.0
MTP3N18	3.0	180	2.2	UFN622	4.0	200	1.2
MTP3N20	3.0	200	2.2	UFN622	4.0	200	1.2
MTP3N35	3.0	350	3.3	UFN721	3.0	350	1.8
MTP3N40	3.0	400	3.3	UFN720	3.0	400	1.8
MTP4N08	4.0	80	1.0	UFN510	4.0	100	0.6
MTP4N10	4.0	100	1.0	UFN510	4.0	100	0.6
MTP4N12	4.0	120	1.5	UFN623	4.0	150	1.2
MTP4N15	4.0	150	1.5	UFN623	4.0	150	1.2
MTP4N45	4.0	450	2.0	UFN833	4.0	450	2.0
MTP4N50	4.0	500	2.0	UFN832	4.0	500	2.0
MTP5N08	5.0	80	1.0	UFN522	7.0	100	0.4
MTP5N10	5.0	100	1.0	UFN522	7.0	100	0.4
MTP5N18	5.0	180	1.0	UFN620	5.0	200	0.8
MTP5N20	5.0	200	1.0	UFN620	5.0	200	0.8
MTP5N35	5.0	350	1.5	UFN731	5.5	350	1.0
MTP5N40	5.0	400	1.5	UFN730	5.5	400	1.0
MTP6N05	6.0	50	0.55	UFN523	7.0	60	0.4
MTP6N060	6.0	60	0.55	UFN523	7.0	60	0.4
MTP7N05	7.0	50	0.45	UFN523	7.0	60	0.4

Part Number	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)	Suggested Replacement	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)
MTP7N06	7.0	60	0.45	UFN523	7.0	60	0.4
MTP7N12	7.0	120	0.7	UFN633	8.0	150	0.6
MTP7N15	7.0	150	0.7	UFN633	8.0	150	0.6
MTP7N18	7.0	180	0.65	UFN632	8.0	200	0.6
MTP7N20	7.0	200	0.65	UFN632	8.0	200	0.6
MTP8N08	8.0	80	0.5	UFN520	8.0	100	0.3
MTP8N10	8.0	100	0.4	UFN520	8.0	100	0.3
MTP8N12	8.0	120	0.5	UFN633	8.0	150	0.6
MTP8N15	8.0	150	0.5	UFN633	8.0	150	0.6
MTP8N18	8.0	180	0.5	UFN632	8.0	200	0.6
MTP8N20	8.0	200	0.5	UFN632	8.0	200	0.6
MTP10N05	10	50	0.28	UFN533	12	60	0.25
MTP10N06	10	60	0.28	UFN533	12	60	0.25
MTP10N08	10	80	0.33	UFN532	12	100	0.25
MTP10N10	10	100	0.33	UFN532	12	100	0.25
MTP10N12	10	120	0.30	UFN643	16	150	0.22
MTP10N15	10	150	0.30	UFN643	16	150	0.22
MTP12N05	12	50	0.2	UFN533	12	60	0.25
MTP12N06	12	60	0.2	UFN533	12	60	0.25
MTP12N08	12	80	0.18	UFN532	12	100	0.25
MTP12N10	12	100	0.18	UFN532	12	100	0.25
MTP15N05	15	50	0.16	UFN543	24	60	0.11
MTP15N06	15	60	0.16	UFN543	24	60	0.11
MTP1034	10	120	0.3	UFN643	16	150	0.22
MTP1035	10	150	0.3	UFN643	16	150	0.22
RFL1N08	1.0	80	1.25	UFNF112	3.0	100	0.8
RFL1N10	1.0	100	1.25	UFNF112	3.0	100	0.8
RFL1N12	1.0	120	2.0	UFNF213	1.8	150	2.4
RFL1N15	1.0	150	2.0	UFNF213	1.8	150	2.4
RFM3N45	3.0	450	3.0	UFN423	8.0	450	2.0
RFM3N50	3.0	500	3.0	UFN422	8.0	500	2.0
RFM8N18	8.0	180	0.5	UFN232	8.0	200	0.6
RFM8N20	8.0	200	0.5	UFN232	8.0	200	0.6
RFM10N12	10	120	0.3	UFN243	16	150	0.22
RFM10N15	10	150	0.3	UFN243	16	150	0.22
RFM12N08	12	80	0.2	UFN132	12	100	0.25
RFM12N10	12	100	0.2	UFN132	12	100	0.25
RFM15N12	15	120	0.15	UFN243	16	150	0.22
RFM15N15	15	150	0.15	UFN243	16	150	0.22
RFM18N08	18	80	0.12	UFN142	24	100	0.11
RFM18N10	18	100	0.12	UFN142	24	100	0.11
RFN1N18	1.0	180	3.0	UFNF212	1.8	200	2.4
RFN1N20	1.0	200	3.0	UFNF212	1.8	200	2.4
RFP2N08	2.0	80	1.25	UFN512	3.5	100	0.8
RFP2N10	2.0	100	1.25	UFN512	3.5	100	0.8
RFP2N12	2.0	120	2.0	UFN613	2.0	150	2.4
RFP2N15	2.0	150	2.0	UFN613	2.0	150	2.4
RFP2N18	2.0	180	3.0	UFN612	2.0	200	2.4
RFP2N20	2.0	200	3.0	UFN612	2.0	200	2.4
RFP3N45	3.0	450	3.0	UFN833	4.0	450	2.0
RFP3N50	3.0	500	3.0	UFN832	4.0	500	2.0
RFP8N18	8.0	180	0.5	UFN632	8.0	200	0.6
RFP8N20	8.0	200	0.5	UFN632	8.0	200	0.6
RFP10N12	10	120	0.3	UFN643	16	150	0.22
RFP10N15	10	150	0.3	UFN643	16	150	0.22
RFP12N08	12	80	0.2	UFN532	12	100	0.25
RFP12N10	12	100	0.2	UFN532	12	100	0.25
RFP15N12	15	120	0.15	UFN643	16	150	0.22
RFP15N15	15	150	0.15	UFN643	16	150	0.22
RFP18N08	18	80	0.12	UFN542	24	100	0.11
RFP18N10	18	100	0.12	UFN542	24	100	0.11
VN30AB	1.2	35	5.0	UFNF113	3.0	60	0.8
VN35AA	3.0	35	2.5	UFN123	7.0	60	0.4
VN35AB	1.2	35	2.5	UFNF113	3.0	60	0.8
VN40AD	1.5	40	5.0	UFN513	3.5	60	0.8
VN40AF**	1.3	40	5.0	UFN513	3.5	60	0.8
VN46AD	1.9	40	3.0	UFN513	3.5	60	0.8
VN46AF**	1.6	40	3.0	UFN513	3.5	60	0.8
VN46GA	10	60	0.4	UFN133	12	60	0.25
VN66AD	1.9	60	3.0	UFN513	3.5	60	0.8
VN66AF**	1.2	60	3.0	UFN513	3.5	60	0.8
VN66AK	1.2	60	3.0	UFNF113	3.0	60	0.8

* Direct Equivalent

Δ Proposed Products

† Competitor's package is a TO-237; Unitrode's package is a TO-92

** Competitor's package is a TO-202; Unitrode's package is a TO-220

VN67AB	1.2A	60	3.5	UFNF113	3.0	60	0.8
VN67AF**	1.2	60	3.5	UFN513	3.5	60	0.8
VN67AK	1.2	60	3.5	UFNF113	3.0	60	0.8
VN88AF**	1.2	80	4.0	UFN512	3.5	100	0.8
VN89AB	1.2	80	4.5	UFNF112	3.0	100	0.8
VN89AF**	1.2	80	4.5	UFN512	3.5	100	0.8
VN90AB	1.2	90	5.0	UFNF112	3.0	100	0.8
VN98AK	1.2	90	4.0	UFNF112	3.0	100	0.8
VN99AK	1.2	90	4.5	UFNF112	3.0	100	0.8
VN66AF**	1.7	60	3.0	UFN513	3.5	60	0.8
VN67AA	2.0	60	3.5	UFN123	7.0	60	0.4
VN67AB	1.0	60	3.5	UFNF113	3.0	60	0.8
VN67AD	1.8	60	3.5	UFN513	3.5	60	0.8
VN67AF**	1.6	60	3.5	UFN513	3.5	60	0.8
VN80AF**	1.3	80	5.0	UFN513	3.5	100	0.8
VN88AF**	1.3	80	4.0	UFN512	3.5	100	0.8
VN88AD	1.7	80	4.0	UFN512	3.5	100	0.8
VN89AD	1.6	80	4.5	UFN512	3.5	100	0.8
VN90AB	0.8	90	5.0	UFNF112	3.0	100	0.8
VN99AB	0.9	90	4.5	UFNF112	3.0	100	0.8
VN0300D	2.5	30	1.2	UFN513	3.5	60	0.8
VN0300M†	0.7	30	1.2	UFNA11	1.0	60	1.5
VN0400A	18	40	0.12	UFN143	24	60	0.11
VN0400D	18	40	0.12	UFN543	24	60	0.11
VN0401A	16	40	0.15	UFN143	24	60	0.11
VN0401D	16	40	0.15	UFN543	24	60	0.11
VN0600A	18	60	0.12	UFN143	24	60	0.11
VN0600D	18	60	0.12	UFN543	24	60	0.11
VN0601A	16	60	0.15	UFN143	24	60	0.11
VN0601D	16	60	0.15	UFN543	24	60	0.11
VN0800A	14	80	0.18	UFN130	14	100	0.18
VN0800D	14	80	0.18	UFN530	14	100	0.18
VN0801A	12	80	0.25	UFN132	12	100	0.25
VN0801D	12	80	0.25	UFN532	12	100	0.25
VN1000A	14	100	0.18	UFN130	14	100	0.18
VN1000D	14	100	0.18	UFN530	14	100	0.18
VN1001A	12	100	0.25	UFN132	12	100	0.25
VN1001D	12	100	0.25	UFN532	12	100	0.25
VN1200A	14	120	0.18	UFN243	16	150	0.22
VN1200D	14	120	0.18	UFN643	16	150	0.22
VN1201A	12	120	0.25	UFN243	16	150	0.22
VN1201D	12	120	0.25	UFN643	16	150	0.22
VN1206B	0.8	120	6.0	UFNF213	1.8	150	2.4
VN1206D	1.4	120	6.0	UFN613	2.0	150	2.4
VN1706B	0.8	170	6.0	UFN212	1.8	200	2.4
VN1706D	1.4	170	6.0	UFN612	2.0	200	2.4
VN3500A	6.0	350	1.0	UFN343	8.0	350	0.8
VN3500D	6.0	350	1.0	UFN743	8.0	350	0.8
VN3501A	5.0	350	1.5	UFN331	5.5	350	1.0
VN3501D	5.0	350	1.5	UFN731	5.5	350	1.0
VN4000A	6.0	400	1.0	UFN342	8.0	400	0.8
VN4000D	6.0	400	1.0	UFN742	8.0	400	0.8
VN4001A	5.0	400	1.5	UFN330	5.5	400	1.0
VN4001D	5.0	400	1.5	UFN730	5.5	400	1.0
VN4501A	4.5	450	1.5	UFN431	4.5	450	1.5
VN4501D	4.5	450	1.5	UFN831	4.5	450	1.5
VN4502A	4.0	450	2.0	UFN433	4.0	450	2.0
VN4502D	4.0	450	2.0	UFN833	4.0	450	2.0
VN5001A	4.5	500	1.5	UFN430	4.5	500	1.5
VN5001D	4.5	500	1.5	UFN830	4.5	500	1.5
VN5002A	4.0	500	2.0	UFN432	4.0	500	2.0
VN5002D	4.0	500	2.0	UFN832	4.0	500	2.0
VNL001A	8.0	350	1.0	UFN343	8.0	350	0.8
VNM001A	8.0	400	1.0	UFN342	8.0	400	0.8
VNN002A	6.5	450	1.5	UFN443	7.0	450	1.1
VNP002A	6.5	500	1.5	UFN442	7.0	500	1.1
VN0104N2	0.8	40	4.0	UFNF113	3.0	60	0.8
VN0104N3	0.5	40	4.0	UFNA11	1.0	60	1.5
VN0104N4**	1.5	40	4.0	UFN513	3.5	60	0.8
VN0104N5	1.5	40	4.0	UFN513	3.5	60	0.8
VN0106N2	0.8	60	4.0	UFNF113	3.0	60	0.8
VN0106N3	0.5	60	4.0	UFNA11	1.0	60	1.5
VN0106N4**	1.5	60	4.0	UFN513	3.5	60	0.8
VN0106N5	1.5	60	4.0	UFN513	3.5	60	0.8
VN0109N2	0.8	90	4.0	UFN112	3.0	100	0.8
VN0109N3	0.5	90	4.0	UFNA12	1.0	100	1.5

VN0109N4**	1.5	90	4.0	UFN512	3.5	100	0.8
VN0109N5	1.5	90	4.0	UFN512	3.5	100	0.8
VN0110N2	0.5	100	8.0	UFNF112	3.0	100	0.8
VN0110N3	0.3	100	8.0	UFNA12	1.0	100	1.5
VN0110N5	1.0	100	8.0	UFN512	3.5	100	0.8
VN0114N2	0.5	140	8.0	UFNF213	1.8	150	2.4
VN0114N5	1.0	140	8.0	UFN613	2.0	150	2.4
VN0204N2	1.5	40	2.0	UFNF113	3.0	60	0.8
VN0204N5	3.8	40	2.0	UFN511	4.0	60	0.6
VN0206N2	1.4	60	2.0	UFNF113	3.0	60	0.8
VN0206N5	3.8	60	2.0	UFN511	4.0	60	0.6
VN0210N2	1.4	100	2.0	UFNF112	3.0	100	0.8
VN0210N5	3.8	100	2.0	UFN510	4.0	100	0.6
VN0215N2	1.0	150	4.0	UFNF211	2.2	150	1.5
VN0215N5	2.0	150	4.0	UFN613	2.0	150	2.4
VN0216N2	0.7	160	8.0	UFNF212	1.8	200	2.4
VN0216N5	1.5	160	8.0	UFN612	2.0	200	2.4
VN0220N2	0.7	200	8.0	UFNF212	1.8	200	2.4
VN0220N5	1.5	200	8.0	UFN612	2.0	200	2.4
VN0330N1	3.5	300	3.0	UFN333	4.5	350	1.5
VN0330N2	1.0	300	3.0	UFNF313	1.15	350	5.0
VN0330N5	2.1	300	3.0	UFN723	2.5	350	2.5
VN0335N1	3.5	350	3.0	UFN333	4.5	350	1.5
VN0335N2	1.0	350	3.0	UFNF313	1.15	350	5.0
VN0335N5	2.1	350	3.0	UFN723	2.5	350	2.5
VN0340N1	3.5	400	3.0	UFN332	4.5	400	1.5
VN0340N2	1.0	400	3.0	UFNF312	1.15	400	5.0
VN0340N5	2.1	400	3.0	UFN722	2.5	400	2.5
VN0345N1	3.5	450	3.0	UFN433	4.0	450	2.0
VN0345N2	1.0	450	3.0	UFNF423	1.4	450	4.0
VN0345N5	2.1	450	3.0	UFN821	2.5	450	3.0
VN0350N1	2.75	500	6.0	UFN432	4.0	500	2.0
VN0350N2	0.7	500	6.0	UFNF422	1.4	500	4.0
VN0350N5	1.8	500	6.0	UFN822	2.0	500	4.0
VN0430N1	10	300	0.75	UFN341	10	350	0.55
VN0435N1	10	350	0.75	UFN341	10	350	0.55
VN0440N1	10	400	0.75	UFN340	10	400	0.55
VN0445N1	10	450	0.75	UFN453	12	450	0.5
VN1106N1	9.0	60	1.0	UFN133	12	60	0.25
VN1106N2	2.5	60	1.0	UFNF113	3.0	60	0.8
VN1106N5	7.0	60	1.0	UFN533	12	60	0.25
VN1110N1	9.0	100	1.0	UFN132	12	100	0.25
VN1110N2	2.5	100	1.0	UFNF112	3.0	100	0.8
VN1110N5	7.0	100	1.0	UFN532	12	100	0.25
VN1115N1	12	150	2.0	UFN231	9.0	150	0.4
VN1115N2	2.0	150	2.0	UFNF211	2.2	150	1.5
VN1115N5	7.0	150	2.0	UFN633	8.0	150	0.6
VN1120N1	3.0	200	4.0	UFN222	4.0	200	1.2
VN1120N2	1.0	200	4.0	UFNF212	1.8	200	2.4
VN1120N5	2.0	200	4.0	UFN612	2.0	200	2.4
VN1204N1	12	40	0.4	UFN133	12	60	0.25
VN1204N2	2.5	40	0.4	UFNF113	3.0	60	0.8
VN1204N5	9.0	40	0.4	UFN533	12	60	0.25
VN1206N1	12	60	0.4	UFN133	12	60	0.25
VN1206N2	2.5	60	0.4	UFNF113	3.0	60	0.8
VN1206N5	9.0	60	0.4	UFN533	12	60	0.25
VN1210N1	12	100	0.4	UFN132	12	100	0.25
VN1210N2	2.5	100	0.4	UFNF112	3.0	100	0.8
VN1210N5	9.0	100	0.4	UFN532	12	100	0.25
VN1215N1	8.0	150	0.75	UFN233	8.0	150	0.6
VN1215N2	2.0	150	0.75	UFNF211	2.2	150	1.5
VN1215N5	5.5	150	0.75	UFN633	8.0	150	0.6
VN1216N1	6.0	160	1.5	UFN232	8.0	200	0.6
VN1216N2	2.0	160	1.5	UFNF210	2.2	200	1.5
VN1216N5	4.0	160	1.5	UFN622	4.0	200	1.2
VN1220N1	6.0	200	1.5	UFN232	8.0	200	0.6
VN1220N2	2.0	200	1.5	UFNF210	2.2	200	1.5
VN1220N5	4.0	200	1.5	UFN622	4.0	200	1.2
ZVN0104A	1.0	40	4.0	UFNA11	1.0	60	1.5
ZVN0104B	3.0	40	4.0	UFNF113	3.0	60	0.8
ZVN0104K**	2.0	40	4.0	UFN513	3.5	60	0.8
ZVN0104L	3.0	40	4.0	UFN513	3.5	60	0.8

* Direct Equivalent
Δ Proposed Products
† Competitor's package is a TO-237;
Unitrode's package is a TO-92
** Competitor's package is a TO-202;
Unitrode's package is a TO-220

Part Number	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)	Suggested Replacement	I_D (A)	BV_{DSS} (V)	$R_{DS(on)}$ (Ω)
ZVN0106A	1.0	60	4.0	UFNA11	1.0	60	1.5
ZVN0106B	3.0	60	4.0	UFNF113	3.0	60	0.8
ZVN0106K**	2.0	60	4.0	UFN513	3.5	60	0.8
ZVN0106L	3.0	60	4.0	UFN513	3.5	60	0.8
ZVN0108A	1.0	80	4.0	UFNA12	1.0	100	1.5
ZVN0108B	3.0	80	4.0	UFNF112	3.0	100	0.8
ZVN0108K**	2.0	80	4.0	UFN512	3.5	100	0.8
ZVN0108L	3.0	80	4.0	UFN512	3.5	100	0.8
ZVN0109A	1.0	90	4.0	UFNA12	1.0	100	1.5
ZVN0109B	3.0	90	4.0	UFNF112	3.0	100	0.8
ZVN0109K**	2.0	90	4.0	UFN512	3.5	100	0.8
ZVN0109L	3.0	90	4.0	UFN512	3.5	100	0.8
ZVN0110A	1.0	100	8.0	UFNA12	1.0	100	1.5
ZVN0110B	3.0	100	8.0	UFNF112	3.0	100	0.8
ZVN0110L	3.0	100	8.0	UFN512	3.5	100	0.8
ZVN0114B	3.0	140	8.0	UFNF223	3.0	150	1.2
ZVN0114L	3.0	140	8.0	UFN623	4.0	150	1.2
ZVN0116B	3.0	160	16	UFNF222	3.0	200	1.2
ZVN0116L	3.0	160	16	UFN622	4.0	200	1.2
ZVN0120B	3.0	200	16	UFNF222	3.0	200	1.2
ZVN0120L	3.0	200	16	UFN622	4.0	200	1.2
ZVN0204B	4.0	40	2.0	UFNF123	5.0	60	0.4
ZVN0204L	4.0	40	2.0	UFN511	4.0	60	0.6
ZVN0204M	6.0	40	2.0	UFN123	7.0	60	0.4
ZVN0206B	4.0	60	2.0	UFNF123	5.0	60	0.4
ZVN0206L	4.0	60	2.0	UFN511	4.0	60	0.6
ZVN0206M	6.0	60	2.0	UFN123	7.0	60	0.4
ZVN0208B	4.0	80	2.0	UFNF122	5.0	100	0.4
ZVN0208L	4.0	80	2.0	UFN510	4.0	100	0.6
ZVN0208M	6.0	80	2.0	UFN122	7.0	100	0.4
ZVN0209B	4.0	90	2.0	UFNF122	5.0	100	0.4
ZVN0209L	4.0	90	2.0	UFN510	4.0	100	0.6
ZVN0209M	6.0	90	2.0	UFN122	7.0	100	0.4
ZVN0210B	5.0	100	4.0	UFNF122	5.0	100	0.4
ZVN0210L	5.0	100	4.0	UFN522	7.0	100	0.4
ZVN0210M	6.0	100	4.0	UFN122	7.0	100	0.4
ZVN0214B	5.0	140	4.0	UFNF231	5.5	150	0.4
ZVN0214L	5.0	140	4.0	UFN621	5.0	150	0.8
ZVN0214M	6.0	140	4.0	UFN221	5.0	150	0.8
ZVN0216B	5.0	160	8.0	UFNF230	5.5	200	0.4
ZVN0216L	5.0	160	8.0	UFN620	5.0	200	0.8
ZVN0216M	6.0	160	8.0	UFN220	5.0	200	0.8
ZVN0220B	5.0	200	8.0	UFNF230	5.5	200	0.4
ZVN0220L	5.0	200	8.0	UFN620	5.0	200	0.8
ZVN0220M	6.0	200	8.0	UFN220	5.0	200	0.8
ZVN0330L	6.0	300	3.0	UFN743	8.0	350	0.80
ZVN0330M	6.0	300	3.0	UFN343	8.0	350	0.80
ZVN0335L	6.0	350	3.0	UFN743	8.0	350	0.8
ZVN0335M	6.0	350	3.0	UFN343	8.0	350	0.8
ZVN0340L	6.0	400	3.0	UFN342	8.0	400	0.8
ZVN0340M	6.0	400	3.0	UFN342	8.0	400	0.8
ZVN0345L	6.0	450	3.0	UFN843	7.0	450	1.1
ZVN0345M	6.0	450	3.0	UFN443	7.0	450	1.1
ZVN0350L	6.0	500	6.0	UFN842	7.0	500	1.1
ZVN0350M	6.0	500	6.0	UFN442	7.0	500	1.1
ZVN0430M	16	300	1.0	UFN351	15	350	0.3
ZVN0435M	16	350	1.0	UFN351	15	350	0.3
ZVN0530B	1.0	300	80	UFNF313	1.15	350	5.0
ZVN0535B	1.0	350	80	UFNF313	1.15	350	5.0
ZVN0535L	2.0	350	80	UFN723	2.5	350	2.5
ZVN0540B	1.0	400	80	UFNF312	1.15	400	5.0
ZVN0540L	2.0	400	80	UFN722	2.25	400	2.5
ZVN0545B	1.0	450	80	UFNF423	1.40	450	4.0
ZVN0545L	2.0	450	80	UFN823	2.0	450	4.0
ZVN1104B	5.0	40	1.0	UFNF123	5.0	60	0.4
ZVN1104L	5.0	40	1.0	UFN523	7.0	60	0.4
ZVN1104M	8.0	40	1.0	UFN121	8.0	60	0.3
ZVN1106B	5.0	60	1.0	UFNF123	5.0	60	0.4
ZVN1106L	5.0	60	1.0	UFN523	7.0	60	0.4
ZVN1106M	8.0	60	1.0	UFN121	8.0	60	0.3
ZVN1108B	5.0	80	1.0	UFNF122	5.0	100	0.4
ZVN1108L	5.0	80	1.0	UFN522	7.0	100	0.4
ZVN1108M	8.0	80	1.0	UFN120	8.0	100	0.3
ZVN1109B	5.0	90	1.0	UFNF122	5.0	100	0.4
ZVN1109L	5.0	90	1.0	UFN522	7.0	100	0.4
ZVN1109M	8.0	90	1.0	UFN120	8.0	100	0.3
ZVN1110B	5.0	100	2.0	UFNF122	5.0	100	0.4
ZVN1110L	5.0	100	2.0	UFN522	7.0	100	0.4
ZVN1110M	8.0	100	2.0	UFN120	8.0	100	0.3
ZVN1114B	5.0	140	2.0	UFNF231	5.5	150	0.4
ZVN1114L	5.0	140	2.0	UFN621	5.0	150	0.8
ZVN1114M	8.0	140	2.0	UFN221	5.0	150	0.8
ZVN1116B	5.0	160	4.0	UFNF230	5.5	200	0.4
ZVN1116L	5.0	160	4.0	UFN620	5.0	200	0.8
ZVN1116M	8.0	160	4.0	UFN220	5.0	200	0.8
ZVN1120B	5.0	200	4.0	UFNF230	5.5	200	0.4
ZVN1120L	5.0	200	4.0	UFN620	5.0	200	0.8
ZVN1120M	8.0	200	4.0	UFN220	5.0	200	0.8
ZVN1130L	5.0	300	—	UFN731	5.5	350	1.0
ZVN1130M	8.0	300	—	UFN343	8.0	350	0.8
ZVN1135L	5.0	350	—	UFN731	5.5	350	1.0
ZVN1135M	8.0	350	—	UFN343	8.0	350	0.8
ZVN1140L	5.0	400	—	UFN730	5.5	400	1.0
ZVN1140M	8.0	400	—	UFN342	8.0	400	0.8
ZVN1145L	5.0	450	—	UFN843	7.0	450	1.1
ZVN1145M	8.0	450	—	UFN443	7.0	450	1.1
ZVN1204B	8.0	40	0.4	UFN131	8.0	60	0.18
ZVN1204L	16	40	0.4	UFN543	24	60	0.11
ZVN1204M	16	40	0.4	UFN143	24	60	0.11
ZVN1206B	8.0	60	0.4	UFN131	8.0	60	0.18
ZVN1206L	16	60	0.4	UFN543	24	60	0.11
ZVN1206M	16	60	0.4	UFN143	24	60	0.11
ZVN1208B	8.0	80	0.4	UFNF130	8.0	100	0.18
ZVN1208L	16	80	0.4	UFN542	24	100	0.11
ZVN1208M	16	80	0.4	UFN142	24	100	0.11
ZVN1209B	8.0	90	0.4	UFNF130	8.0	100	0.18
ZVN1209L	16	90	0.4	UFN542	24	100	0.11
ZVN1209M	16	90	0.4	UFN142	24	100	0.11
ZVN1210B	8.0	100	0.75	UFNF130	8.0	100	0.18
ZVN1210L	16	100	0.75	UFN542	24	100	0.11
ZVN1210M	16	100	0.75	UFN142	24	100	0.11
ZVN1214L	16	140	0.75	UFN643	16	150	0.22
ZVN1214M	16	140	0.75	UFN243	16	150	0.22
ZVN1216L	16	160	2.0	UFN642	16	200	0.22
ZVN1216M	16	160	2.0	UFN242	16	200	0.22
ZVN1220L	16	200	2.0	UFN642	16	200	0.22
ZVN1220M	16	200	2.0	UFN242	16	200	0.22
ZVN1304A	1.0	40	10	UFNA11	1.0	60	1.5
ZVN1304B	1.5	40	10	UFNF113	3.0	60	0.80
ZVN1306A	1.0	60	10	UFNA11	1.0	60	1.5
ZVN1306B	1.5	60	10	UFNF113	3.0	60	0.80
ZVN1308A	1.0	80	10	UFNA12	1.0	100	1.5
ZVN1308B	1.5	80	10	UFNF112	3.0	100	0.80
ZVN1310A	1.0	100	20	UFNA12	1.0	100	1.5
ZVN1310B	1.5	100	20	UFNF112	3.0	100	0.80
ZVN1314B	1.5	140	20	UFNF213	1.8	150	2.4
ZVN1316B	1.5	160	40	UFNF212	1.8	200	2.4
ZVN1320B	1.5	200	40	UFNF212	1.8	200	2.4

* Direct Equivalent

Δ Proposed Products

† Competitor's package is a TO-237;
Unitrode's package is a TO-92

** Competitor's package is a TO-202;
Unitrode's package is a TO-220

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